

SEQUENCE LISTING

<110> Teng, Ching-Leou  
Cook, Phillip D  
Tillman, Lloyd  
Hardee, Gregory E  
Ecker, David J  
Manoharan, Muthiah

<120> Compositions and Methods for Non-Parenteral Delivery of  
Oligonucleotides

<130>  
<140>  
<141>  
<150> U.S. serial no. 09/082,624  
<151> 1999-05-21  
<160> 58

<210> 1  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 1  
gccaagctg gcatccgtca 20

<210> 2  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 2  
ccccaccac ttccctctc 20

<210> 3  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>

RECEIVED  
09/10/99 11:01:13

<223> antisense sequence

<400> 3

agccatagcg aggctgaggt t 21

<210> 4

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 4

aacatctccg taccatgcca 20

<210> 5

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 5

cccaggcatt ttaagttgct g 21

<210> 6

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 6

gtttaaggca gcatcctaag a 21

<210> 7

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

B1  
cont

<400> 7  
tcacccaaag gtttaggctt g 21

<210> 8  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 8  
gcaatcatga cttcaagagt t 21  
<210> 9

<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 9  
gtgccggggt cttcgggc 18

<210> 10  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 10  
catggtttcg gagggcgtc 19

<210> 11  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 11  
tcgcgtccc tctctcggc 20

<210> 12  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 12  
cacccaagag agcagaaagt 20

<210> 13  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 13  
cccttctac cgcgtgcgac 20

<210> 14  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 14  
cctccgaccc atccacgtag 20

<210> 15  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 15  
gttgacgtcc tacggaaca 20

<210> 16  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 16  
tccgtcatcg ctctcaggg 20

<210> 17  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 17  
tgctgttcgt gccccgccg 20

<210> 18  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 18  
ctaaggcaca aggcgggctg 20

<210> 19  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 19  
tccgcctgt gacatgcatt 20

<210> 20  
<211> 25  
<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 20

cctctctgtt taaaacttta tccat 25

<210> 21

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 21

ttcatatcct gagtcatgtc g 21

<210> 22

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 22

gcuauuaccu uaaccag 18

<210> 23

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 23

cauuauugcc cugaaag 17

<210> 24

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

B1  
cont

<223> antisense sequence

<400> 24

taaaaagaat atgatcttca t 21

<210> 25

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 25

agcaactgag ccacctga 18

<210> 26

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 26

gccatagggg gcagggaagg c 21

<210> 27

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 27

ctctcgcacc catctctctc cttct 25

<210> 28

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 28

ctctcgacc catctctctc cttcta 26

<210> 29

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 29

gctctcgac ccatctctct cttct 26

<210> 30

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 30

gtggtgggtg ggtgggt 17

<210> 31

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 31

gcctattctg ctatgtcgac acccaa 26

<210> 32

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 32

cttcgggcct gtcgggtccc ctcggg 26

B1  
Cont



<210> 33  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 33  
gctggtgatc cttccatcc ctgtgg 26

<210> 34  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 34  
ctactactcc ttgacttgg ggattg 26

<210> 35  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 35  
cttcgggcct gtcgggtccc ctcggg 26

<210> 36  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 36  
cuucgggccu gucggguccc cucggg 26

B1  
cont

<210> 37  
<211> 8  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 37  
ttgggggtt 8

<210> 38  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 38  
gtgctcatgg tgcacgtct 20

<210> 39  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 39  
cattcaaattg gttgcctgc 20

<210> 40  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 40  
gcaggcaaac catttgaatg 20

<210> 41  
<211> 25  
<212> DNA



<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 41

tttgggtcca tcattctcag caaag 25

<210> 42

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 42

catcatcttc agcaaagata 20

<210> 43

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 43

acgcgaaaaa atgcgtacaa 20

<210> 44

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 44

taaaccaaaa aaatggggca 20

<210> 45

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

B1  
Cont.

<223> antisense sequence

<400> 45

tggggcttac ctgcgaaca 20

<210> 46

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 46

gacgtggggc ttaccttgcg 20

<210> 47

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 47

tcttcaacga cgtggggctt 20

<210> 48

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 48

gcgtttgctc ttcttctgc g 21

<210> 49

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 49

B1  
Cont.

gttctcgctg gtgagttca 20

<210> 50

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 50

aactgtgct tgctc 15

<210> 51

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 51

gtgctcatgg tgcacgtct 20

<210> 52

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 52

gtgtgccaga caccctatct 20

<210> 53

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 53

gctgattaga gagaggtccc 20

<210> 54

B!  
cont

<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 54  
ttgcttccat cttctctgctc 20

<210> 55  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 55  
gcccaagctg gcatccgtca 20

<210> 56  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 56  
gcgtttgctc ttcttcttgc g 21

<210> 57  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense sequence

<400> 57  
gttctcgctg gtgagtttca 20

<210> 58  
<211> 20  
<212> DNA

<213> Artificial Sequence

<220>

<223> antisense sequence

<400> 58

gttctcgctg gtgagttca

20